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GARAGE DOOR OPERATOR SAFETY APPARATUS

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ABSTRACT OF THE DISCLOSURE

10 A garage door opening and closing apparatus  
having improved operational safety is disclosed. The  
apparatus includes a control circuit which responds to a  
number of input stimuli to generate commands to open and  
close a garage door as well as to stop garage door  
movement. Three relays respond to the commands via drive  
circuitry to actually connect door operating voltages to  
the windings of a door controlling motor. By  
15 redundancies in the operation of the three relays, faults  
in the operation of those relays result in safe door  
operating conditions. Additionally, the control  
circuitry upon issuing a door stop command, performs a  
20 test to determine whether or not the door is still  
moving. If the door is still moving, door up commands  
are generated by the control circuitry to place the door  
in a safe position.

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